



## Predicting the potential impact of climate change on people-caused forest fire occurrence in South Korea

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### Abstract:

We investigated the potential impact of climate change on people-caused forest fire occurrence in South Korea. Logistic regression analysis methods were used to develop daily fire occurrence prediction models for each of nine study areas. These models were then coupled with climate scenario data produced by two General Circulation Models (CCCma and CCSR/NIES) to predict future people-caused fire occurrence in those nine areas. Our results suggest the number of fire days will increase by roughly 7 to 58% depending upon the district. However, as the prediction of fire occurrence was varied by the land use, the vegetation, human activity, forest management policy and etc., more factors related this part should be need to research more with this study

### Resource Description

#### Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Other Climate Scenario

**Other Climate Scenario:** Canadian Global Coupled Model; CCSR/NIEHS model;

#### Exposure :

weather or climate related pathway by which climate change affects health

Extreme Weather Event, Meteorological Factors, Meteorological Factors, Precipitation, Temperature, Other Exposure

**Extreme Weather Event:** Wildfires

**Temperature:** Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

Other Geographical Feature

**Other Geographical Feature :** forest

#### Geographic Location:

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resource focuses on specific location

Non-United States

**Non-United States:** Asia

**Asian Region/Country:** Other Asian Country

**Other Asian Country:** South Korea

**Health Impact:** ☒

specification of health effect or disease related to climate change exposure

Health Outcome Unspecified

**Mitigation/Adaptation:** ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

**Model/Methodology:** ☒

type of model used or methodology development is a focus of resource

Exposure Change Prediction

**Resource Type:** ☒

format or standard characteristic of resource

Research Article

**Timescale:** ☒

time period studied

Medium-Term (10-50 years)

**Vulnerability/Impact Assessment:** ☒

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content